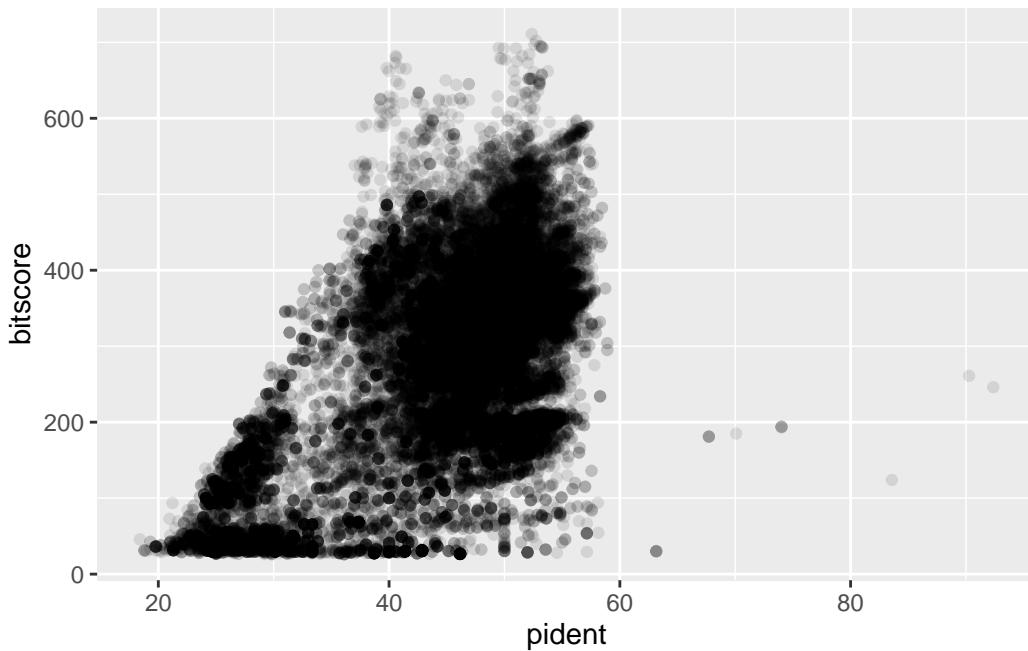


Lab 16

Junlin Ruan (PID: A17839687)

```
b <- read.table("my_results.tsv")  
  
colnames(b) <- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen", "qstart", "qend")  
  
library(ggplot2)  
ggplot(b, aes(pident, bitscore)) + geom_point(alpha=0.1)
```



```
ggplot(b, aes((b$pident * (b$qend - b$qstart)), bitscore)) + geom_point(alpha=0.1) + geom_smo
```

Warning: Use of `b\$pident` is discouraged.
i Use `pident` instead.

```
Warning: Use of `b$qend` is discouraged.  
i Use `qend` instead.
```

```
Warning: Use of `b$qstart` is discouraged.  
i Use `qstart` instead.
```

```
Warning: Use of `b$pident` is discouraged.  
i Use `pident` instead.
```

```
Warning: Use of `b$qend` is discouraged.  
i Use `qend` instead.
```

```
Warning: Use of `b$qstart` is discouraged.  
i Use `qstart` instead.
```

```
`geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```

